SEQUENCE LISTING

<110> XXXINVENTORS

<120> ANTI-NIK ANTIBODIES AND USES THEREOF

<130> 25831

<160> 22

<170> PatentIn version 3.2

<210> 1
<211> 17
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

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Asp Val Ile Thr Lys Gly Thr Ala Lys Glu Gly Ser Glu Ala Gly Pro
1   5   10   15

Ala

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<220>
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<400> 2

Cys Glu Asn Ser Gln Glu Phe Ser Pro Thr Phe Ser Glu Arg
1   5   10

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<400> 3

Lys Gly Lys Arg Arg Ser Lys Ala Arg Lys Arg Lys Lys Lys Ser
1   5   10   15

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<223> Synthetic peptide

<400> 4

Glu Gly Leu Arg Pro Ala Leu Pro Arg Ser Glu Leu His Lys
1   5   10

<210> 5

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<213>  Artificial sequence

<220>
<223>  Synthetic peptide

<400>  5

Arg Gly Ser Arg Ser Arg Glu Pro Ser Pro Lys Thr Glu Asp Asn Glu
1               5                   10                  15


<210>  6
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<220>
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<400>  6

Lys Leu Lys Pro Val Asp Tyr Glu Tyr Arg Glu Glu Val His
1               5                   10


<210>  7
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<220>
<223>  Synthetic peptide

<400>  7

Arg Leu Gly Arg Gly Ser Phe Gly Glu Val His Arg Met Glu Asp Lys
1               5                   10                  15


<210>  8
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<212>  PRT
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<220>
<223>  Synthetic peptide

<400>  8

Ala Val Lys Lys Val Arg Leu Glu Val Phe Arg Ala Glu Glu Leu
1               5                   10                  15


<210>  9
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<212>  PRT
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<220>
<223>  Synthetic peptide

<400>  9

Arg Arg Ile Leu His Gly Asp Val Lys Ala Asp Asn Val Leu Leu
1               5                   10                  15


<210>  10
<211>  12
<212>  PRT
<213>  Artificial sequence
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<220>
<223>  Synthetic peptide

<400>  10

Ile Ala Ser Glu Pro Pro Pro Val Arg Glu Ile Pro
1               5                   10


<210>  11
<211>  16
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Synthetic peptide

<400>  11

Arg Lys Glu Pro Ile His Arg Val Ser Ala Ala Glu Leu Gly Gly Lys
1               5                   10                  15


<210>  12
<211>  16
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Synthetic peptide

<400>  12

Arg Gly Glu Tyr Lys Glu Pro Arg His Pro Pro Pro Asn Gln Ala Asn
1               5                   10                  15


<210>  13
<211>  17
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Synthetic peptide

<400>  13

Arg Ala Pro Gly Pro Arg Pro Ala Glu Glu Thr Thr Gly Arg Ala Pro Lys
1               5                   10                  15


<210>  14
<211>  17
<212>  PRT
<213>  Artificial sequence

<220>
<223>  Synthetic peptide

<400>  14

Glu Pro Pro Glu Pro Asn Lys Ser Pro Pro Leu Thr Leu Ser Lys Glu Glu
1               5                   10                  15


<210>  15
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<212>  PRT
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<220>
<223>  Synthetic peptide
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<400> 15

Pro Ala Arg Asn Pro Ser Ser Pro Glu Arg Lys Ala Thr Val Pro Glu
1   5   10   15

<210> 16
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<212> PRT
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<220>
<223> Synthetic peptide

<400> 16

Glu Leu Gln Gln Leu Glu Ile Glu Leu Phe Leu Asn Ser Leu Ser
1   5   10   15

<210> 17
<211> 16
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<220>
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<400> 17

Asp Asp Ser Glu Lys Asn Pro Ser Lys Ala Ser Gln Ser Ser Arg Asp
1   5   10   15

<210> 18
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<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 18

Glu Ala Arg Ser Ser Ser Trp Asn Met Val Leu Ala Arg Gly Arg Pro
1   5   10   15

<210> 19
<211> 15
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 19

Glu His Leu His Ile Arg Glu Phe His Arg Val Lys Val Gly Asp
1   5   10   15

<210> 20
<211> 14
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 20

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Lys Asp Gly Gln Pro Val Arg Tyr Asp Met Glu Val Pro Asp
1               5                   10


<210>  21
<211>  947
<212>  PRT
<213>  Homo sapiens

<400>  21

Met Ala Val Met Glu Met Ala Cys Pro Gly Ala Pro Gly Ser Ala Val
1               5                   10                  15


Gly Gln Gln Lys Glu Leu Pro Lys Pro Lys Glu Lys Thr Pro Pro Leu
            20              25              30


Gly Lys Lys Gln Ser Ser Val Tyr Lys Leu Glu Ala Val Glu Lys Ser
        35              40              45


Pro Val Phe Cys Gly Lys Trp Glu Ile Leu Asn Asp Val Ile Thr Lys
    50              55              60


Gly Thr Ala Lys Glu Gly Ser Glu Ala Gly Pro Ala Ala Ile Ser Ile
65              70              75              80


Ile Ala Gln Ala Glu Cys Glu Asn Ser Gln Glu Phe Ser Pro Thr Phe
            85              90              95


Ser Glu Arg Ile Phe Ile Ala Gly Ser Lys Gln Tyr Ser Gln Ser Glu
            100             105             110


Ser Leu Asp Gln Ile Pro Asn Asn Val Ala His Ala Thr Glu Gly Lys
        115             120             125


Met Ala Arg Val Cys Trp Lys Gly Lys Arg Arg Ser Lys Ala Arg Lys
    130             135             140


Lys Arg Lys Lys Lys Ser Ser Lys Ser Leu Ala His Ala Gly Val Ala
145             150             155             160


Leu Ala Lys Pro Leu Pro Arg Thr Pro Glu Gln Glu Ser Cys Thr Ile
            165             170             175


Pro Val Gln Glu Asp Glu Ser Pro Leu Gly Ala Pro Tyr Val Arg Asn
            180             185             190


Thr Pro Gln Phe Thr Lys Pro Leu Lys Glu Pro Gly Leu Gly Gln Leu
            195             200             205


Cys Phe Lys Gln Leu Gly Glu Gly Leu Arg Pro Ala Leu Pro Arg Ser
    210             215             220


Glu Leu His Lys Leu Ile Ser Pro Leu Gln Cys Leu Asn His Val Trp
225             230             235             240


Lys Leu His His Pro Gln Asp Gly Gly Pro Leu Pro Leu Pro Thr His
            245             250             255
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```
Pro Phe Pro Tyr Ser Arg Leu Pro His Pro Phe Pro Phe His Pro Leu
        260             265             270


Gln Pro Trp Lys Pro His Pro Leu Glu Ser Phe Leu Gly Lys Leu Ala
        275             280             285


Cys Val Asp Ser Gln Lys Pro Leu Pro Asp Pro His Leu Ser Lys Leu
    290             295             300


Ala Cys Val Asp Ser Pro Lys Pro Leu Pro Gly Pro His Leu Glu Pro
305             310             315             320


Ser Cys Leu Ser Arg Gly Ala His Glu Lys Phe Ser Val Glu Glu Tyr
            325             330             335


Leu Val His Ala Leu Gln Gly Ser Val Ser Ser Ser Gln Ala His Ser
        340             345             350


Leu Thr Ser Leu Ala Lys Thr Trp Ala Ala Arg Gly Ser Arg Ser Arg
        355             360             365


Glu Pro Ser Pro Lys Thr Glu Asp Asn Glu Gly Val Leu Leu Thr Glu
    370             375             380


Lys Leu Lys Pro Val Asp Tyr Glu Tyr Arg Glu Glu Val His Trp Ala
385             390             395             400


Thr His Gln Leu Arg Leu Gly Arg Gly Ser Phe Gly Glu Val His Arg
            405             410             415


Met Glu Asp Lys Gln Thr Gly Phe Gln Cys Ala Val Lys Lys Val Arg
            420             425             430


Leu Glu Val Phe Arg Ala Glu Glu Leu Met Ala Cys Ala Gly Leu Thr
        435             440             445


Ser Pro Arg Ile Val Pro Leu Tyr Gly Ala Val Arg Glu Gly Pro Trp
    450             455             460


Val Asn Ile Phe Met Glu Leu Leu Glu Gly Gly Ser Leu Gly Gln Leu
465             470             475             480


Val Lys Glu Gln Gly Cys Leu Pro Glu Asp Arg Ala Leu Tyr Tyr Leu
            485             490             495


Gly Gln Ala Leu Glu Gly Leu Glu Tyr Leu His Ser Arg Arg Ile Leu
        500             505             510


His Gly Asp Val Lys Ala Asp Asn Val Leu Leu Ser Ser Asp Gly Ser
        515             520             525


His Ala Ala Leu Cys Asp Phe Gly His Ala Val Cys Leu Gln Pro Asp
    530             535             540
```

```
Gly Leu Gly Lys Ser Leu Leu Thr Gly Asp Tyr Ile Pro Gly Thr Glu
545             550             555             560


Thr His Met Ala Pro Glu Val Val Leu Gly Arg Ser Cys Asp Ala Lys
                565             570             575


Val Asp Val Trp Ser Ser Cys Cys Met Met Leu His Met Leu Asn Gly
                580             585             590


Cys His Pro Trp Thr Gln Phe Phe Arg Gly Pro Leu Cys Leu Lys Ile
            595             600             605


Ala Ser Glu Pro Pro Pro Val Arg Glu Ile Pro Pro Ser Cys Ala Pro
    610             615             620


Leu Thr Ala Gln Ala Ile Gln Glu Gly Leu Arg Lys Glu Pro Ile His
625             630             635             640


Arg Val Ser Ala Ala Glu Leu Gly Gly Lys Val Asn Arg Ala Leu Gln
                645             650             655


Gln Val Gly Gly Leu Lys Ser Pro Trp Arg Gly Glu Tyr Lys Glu Pro
                660             665             670


Arg His Pro Pro Pro Asn Gln Ala Asn Tyr His Gln Thr Leu His Ala
            675             680             685


Gln Pro Arg Glu Leu Ser Pro Arg Ala Pro Gly Pro Arg Pro Ala Glu
    690             695             700


Glu Thr Thr Gly Arg Ala Pro Lys Leu Gln Pro Pro Leu Pro Pro Glu
705             710             715             720


Pro Pro Glu Pro Asn Lys Ser Pro Pro Leu Thr Leu Ser Lys Glu Glu
                725             730             735


Ser Gly Met Trp Glu Pro Leu Pro Leu Ser Ser Leu Glu Pro Ala Pro
            740             745             750


Ala Arg Asn Pro Ser Ser Pro Glu Arg Lys Ala Thr Val Pro Glu Gln
        755             760             765


Glu Leu Gln Gln Leu Glu Ile Glu Leu Phe Leu Asn Ser Leu Ser Gln
    770             775             780


Pro Phe Ser Leu Glu Glu Gln Glu Gln Ile Leu Ser Cys Leu Ser Ile
785             790             795             800


Asp Ser Leu Ser Leu Ser Asp Asp Ser Glu Lys Asn Pro Ser Lys Ala
                805             810             815


Ser Gln Ser Ser Arg Asp Thr Leu Ser Ser Gly Val His Ser Trp Ser
            820             825             830
```

Ser Gln Ala Glu Ala Arg Ser Ser Ser Trp Asn Met Val Leu Ala Arg
        835   840   845

Gly Arg Pro Thr Asp Thr Pro Ser Tyr Phe Asn Gly Val Lys Val Gln
        850   855   860

Ile Gln Ser Leu Asn Gly Glu His Leu His Ile Arg Glu Phe His Arg
865   870   875   880

Val Lys Val Gly Asp Ile Ala Thr Gly Ile Ser Ser Gln Ile Pro Ala
            885   890   895

Ala Ala Phe Ser Leu Val Thr Lys Asp Gly Gln Pro Val Arg Tyr Asp
            900   905   910

Met Glu Val Pro Asp Ser Gly Ile Asp Leu Gln Cys Thr Leu Ala Pro
        915   920   925

Asp Gly Ser Phe Ala Trp Ser Trp Arg Val Lys His Gly Gln Leu Glu
        930   935   940

Asn Arg Pro
945

<210> 22
<211> 280
<212> PRT
<213> Artificial sequence

<220>
<223> Recombinant polypeptide corresponding to a.a. 401-681 of the
      human NIK sequence

<400> 22

Thr His Gln Leu Arg Leu Gly Arg Gly Ser Phe Gly Glu Val His Arg
1   5   10   15

Met Glu Asp Lys Gln Thr Gly Phe Gln Cys Ala Val Lys Lys Val Arg
            20   25   30

Leu Glu Val Phe Arg Ala Glu Glu Leu Met Ala Cys Ala Gly Leu Thr
        35   40   45

Ser Pro Arg Ile Val Pro Leu Tyr Gly Ala Val Arg Glu Gly Pro Trp
    50   55   60

Val Asn Ile Phe Met Glu Leu Leu Glu Gly Gly Ser Leu Gly Gln Leu
65   70   75   80

Val Lys Glu Gln Gly Cys Leu Pro Glu Asp Arg Ala Leu Tyr Tyr Leu
            85   90   95

Gly Gln Ala Leu Glu Gly Leu Glu Tyr Leu His Ser Arg Arg Ile Leu
        100   105   110

His Gly Asp Val Lys Ala Asp Asn Val Leu Leu Ser Ser Asp Gly Ser
        115   120   125

```
His Ala Ala Leu Cys Asp Phe Gly His Ala Val Cys Leu Gln Pro Asp
    130         135             140

Gly Leu Gly Lys Ser Leu Leu Thr Gly Asp Tyr Ile Pro Gly Thr Glu
145             150             155                 160

Thr His Met Ala Pro Glu Val Val Leu Gly Arg Ser Cys Asp Ala Lys
                165             170             175

Val Asp Val Trp Ser Ser Cys Cys Met Met Leu His Met Leu Asn Gly
            180             185             190

Cys His Pro Trp Thr Gln Phe Phe Arg Gly Pro Leu Cys Leu Lys Ile
        195             200             205

Ala Ser Glu Pro Pro Pro Val Arg Glu Ile Pro Pro Ser Cys Ala Pro
    210             215             220

Leu Thr Ala Gln Ala Ile Gln Glu Gly Leu Arg Lys Glu Pro Ile His
225             230             235                 240

Arg Val Ser Ala Ala Glu Leu Gly Gly Lys Val Asn Arg Ala Leu Gln
                245             250             255

Gln Val Gly Gly Leu Lys Ser Pro Trp Arg Gly Glu Tyr Lys Glu Pro
            260             265             270

Arg His Pro Pro Pro Asn Gln Ala Asn
        275             280
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a specific portion of the amino acid sequence is provided.